

*Citrus fruits.*—Most of the damage was to citrus fruits, estimated by the State Citrus Exchange at 1,000,000 boxes.

*Telephone and telegraph.*—Considerable damage was done to telephone and telegraph equipment, to the extent of many thousand dollars, specific figures not being available.

*Highways.*—Highways suffered from the south-central east coast where the storm approached the coast, thence northwestward to point of exit. Minimum of \$100,000 estimated by Florida State Highway Commission.

*Bridges.*—Washing rains damaged roadways and bridges, demoralizing schedules for several days.

*Trees.*—Many trees were uprooted in Osceola, Brevard, Orange and Marion counties.

*Buildings and houses.*—The following counties reported damage in connection with houses and buildings: Marion, Brevard, Osceola, and St. Lucie. Reports are still incomplete as to damage.

*Storm of August 7-21, 1928.*—The disturbance was first noted as one of slight to moderate intensity west of Bridgetown, Barbados, on the evening of the 7th, advancing west-northwest. (See fig. 1, track 2.)

On the evening of the 8th, the following was issued:

Tropical disturbance central about 150 miles south-southwest of Porto Rico moving northwest or west-northwest, of moderate intensity. Caution advised Santo Domingo, Haiti, Jamaica, and contiguous waters next 24 hours. Disturbance is apparently heading for southern Haiti coast.

The following was issued on the morning of the 9th:

Tropical disturbance probably of moderate intensity, 75 to 100 miles south of Santo Domingo coast, moving northwest. Caution advised against; strong northeast and east winds this afternoon and to-night, Santo Domingo and Haiti, and to-night in Windward Passage. Caution also advised Jamaica and eastern Cuban waters to-night.

The next direct information was given by a special report from the S. S. J. A. Moffett, taken at 9 a. m., the 9th, in latitude  $15\frac{1}{2}^{\circ}$ , longitude  $69^{\circ}$ , barometer 29.46, westward 48 miles; later an 11 a. m. observation showed

wind shifting to south. Accordingly, special advices were sent to Haiti and Jamaica as follows:

Disturbance of considerable intensity moving apparently west-northwest. Extreme caution advised Jamaica and southern Haiti.

Belated reports indicate that a very small but destructive disturbance passed over extreme southwest Haiti during the 10th.

On the morning of the 11th the center of the disturbance was over extreme eastern Cuba, the U. S. S. *Arkansas* in Guantanamo Bay having reported an east wind of 78 m. p. h. at 4:30 a. m. of that date.

As far as telegraphic reports are concerned, the center was not definitely traceable for the next 24 to 36 hours, but reports received by mail indicate that a small center passed over the province of Oriente, Cuba, where some banana trees were blown down, and was central on the morning of the 12th on the north coast of central Cuba. Observations during the afternoon of the 12th indicated a disturbance southeast of Key West, and an advisory was sent to southern Florida stations. At 8 p. m. of that date it was evident that a small but intense disturbance was advancing northwestward toward the Florida Keys and advices were disseminated for gales over this region, possibly reaching hurricane force near the center. Storm warnings were ordered from West Palm Beach on the east coast southward to Key West and thence northward along the west coast to Punta Russa and Punta Gorda. On the 13th storm warnings were extended north and west to Mobile. The disturbance advanced on a north-northwest course just off the west coast of Florida and passed inland a short distance west of Cedar Keys, attended by gales in that region. Gales were also experienced along the coast and over the Florida Keys.

## KANSAS TORNADOES, 1914-1928

By S. D. FLORA

[Weather Bureau Office, Topeka, Kans., November 13, 1928]

Beginning with 1914, special care has been taken to record important facts concerning each tornado that has occurred in Kansas. This has been largely possible through the network of more than 140 stations of the Weather Bureau in the State, representing conditions in every county. In addition, reports of tornadoes are furnished by weather correspondents of the bureau and by clippings from newspapers of the State. In practically all cases details concerning each storm have been gathered by questionnaires mailed observers and correspondents of the bureau, postmasters, and other responsible persons in or near the path of the storm.

While some areas of Kansas, especially in the western half, are rather thinly settled, it is believed that few, if any, tornadoes have appeared in the State during the time covered that are not given in the tabulation accompanying this article. Certainly none of consequence has escaped notice.

The total number tabulated for the 15-year period is 176, or an average of slightly less than 12 per year. In a number of instances the appearance of a number of funnel-shaped clouds at the same time or at different times in course of the progress of a storm has been considered as a single tornado.

The total number of deaths directly due to these tornadoes is 102 and the total property loss for which estimates are available is \$9,547,150. As there are several rather damaging tornadoes for which no estimates are available, the actual property loss is probably a little in

excess of \$10,000,000, or approximately \$700,000 annually. This does not include losses due to violent winds not of tornadic origin, which have been considerable.

Undoubtedly, Kansas is in what is known as the tornado belt of the country but it is interesting to note that it lies at the western edge of this belt. Of the 176 storms tabulated 45 per cent occurred in the eastern third of the State, 34 per cent in the middle third, and but 21 per cent in the western third.

There is no reason to think that Kansas is more infested with tornadoes than several other States. While statistics for the past 15 years are not available for comparison, the discussion of tornadoes in the 8-year period, 1916-1923 by Hunter, MONTHLY WEATHER REVIEW, May, 1925, showed during 25 years more tornadoes per unit area in Iowa than in Kansas and practically as many in Arkansas, Illinois, and Missouri.

Losses of lives and property during an 8-year period were much greater than in Kansas in Alabama, Illinois, Indiana, and Minnesota. This, of course, may be partly due to the greater density of population and buildings in states east of Kansas although the greater average length of paths of the eastern tornadoes probably has much to do with it.

Comparatively few Kansas tornadoes travel more than 40 miles. Of the 176 tabulated but 5 left paths of 50 miles or more in length. The longest was the violent storm that struck Hutchinson on May 7, 1927, which disappeared 118 miles from its point of origin, though

its actual path, owing to meanderings it pursued, was somewhat longer. A large number of the tornadoes listed struck at but one place, then lifted and disappeared.

But three tornadoes in the history of the States have caused a property loss as great as \$1,000,000. These are the Hutchinson storm of May 7, 1927, the Great Bend storm of November 10, 1915, and one that struck Augusta and near-by oil fields on July 13, 1924.

May and June are undoubtedly the outstanding tornado months in Kansas. During the 15-year period 65 of the 176 tornadoes occurred in June and 30 in May. None were reported in January or December.

The late afternoon, from 3 p. m. to 6 p. m. has been the usual time of occurrence though some tornadoes have been sighted shortly after the noon hour and some have

formed almost as late as midnight. Three occurred between 3 a. m. and 5 a. m., but none during the forenoon.

#### Kansas tornadoes by years

Year	Number occurring	Loss of life	Property loss	Year	Number occurring	Loss of life	Property loss
1914.....	8	10	\$185,000	1923.....	18	1	\$267,000
1915.....	10	20	1,280,000	1924.....	15	2	2,134,300
1916.....	8	3	249,000	1925.....	12	0	377,000
1917.....	18	31	1,881,000	1926.....	16	0	161,200
1918.....	6	10	810,000	1927.....	19	19	1,471,750
1919.....	5	5	229,000	1928.....	25	1	286,900
1920.....	4	0	202,000				
1921.....	6	0	5,000	Totals.....	176	102	9,547,150
1922.....	6	0	8,000				

County and year	Date	Hour	Storm moved from—	Width of path	Length of path (miles)	Loss of life	Property damage (estimated)	Remarks
<b>1914</b>								
Rice.....	Mar. 28	5:30 p. m.	SW			0	\$85,000	Chief damage in Frederick. At least 2 funnel-shaped clouds were seen.
Sumner.....	Apr. 17	do.	SW	¼ mile.	10	0	100,000	Lasted 30 minutes; 12 persons injured.
Butler.....	June 1					0	Small.	Occurred about 7 miles north of Eldorado.
Smith.....	June 2	6:15 p. m.				0	None.	Tornado cloud failed to reach the ground.
Bourbon.....	Aug. 19	3:00 p. m.				0	Small.	Tornado cloud did not quite reach the ground.
Elk, Wilson and Greenwood.	Oct. 9	5:30-6:30 p. m.	NW					3 tornadoes reported, though probably were different appearances of same cloud; 30 houses and barns destroyed. Damage not estimated.
Montgomery.....	do.	7:30 p. m.				10		Loss of life is total for the five storms of October 9.
Cherokee.....	do.	8:00 p. m.				0		Occurred near Galena. Very little damage.
<b>1915</b>								
Wichita.....	June 3	6:00 p. m.	SW	1 mile	Several.	1	\$40,000	Struck 3 miles northwest of Leoti.
Kiowa, Pratt, Stafford, and Pawnee.	June 11	6:30 p. m.	SW	½ mile.	50	0	75,000	Formed near Mullinville; 8 funnel-shaped clouds seen; 3 reached the ground.
Pottawatomie.....	June 17	4:00 p. m.	SE	50 yards	4	5	5,000	Passed near Onago, path decidedly curving.
Coffey.....	do.	5:00 p. m.	SW	¼ mile.	10	0	40,000	Formed 4 miles northwest of Burlington.
Bourbon.....	do.	9:00 p. m.	SW			0	53,000	Chief damage in and near Fort Scott.
Grant.....	June 23	3:00 p. m.				0		4 tornado clouds seen northwest of Ulysses. Damage very small.
Crawford.....	June 30		NW	200 feet.	Several.	0	2,000	Occurred near McCune.
Barton.....	Nov. 10	7:00 p. m.	SW	1,000 feet.	35	11	1,000,000	Chief damage in Great Bend.
Pratt.....	do.	8:30 p. m.	SW	100 feet.	4	0	15,000	Occurred near Pratt.
Sumner.....	do.	10:00 p. m.	SW	600 feet.	16	3	50,000	28 persons injured. Chief damage at Zyba and Derby.
Bourbon.....	Apr. 19	4:30-5:00 p. m.	SW		30	3	150,000	Passed near Fort Scott and into Missouri. 2 funnel-shaped clouds seen near point of origin. Storm path a mile wide in places.
Jackson and Jefferson	do.	3:30 p. m.	SW	100 to 400 feet.	12	0	20,000	Town of Hoyt struck.
Allen.....	do.	4:00 p. m.	SW	350 feet.	5½	0	60,000	Passed near Elmore.
Woodson and Coffey.	do.	3:00 p. m.	S	250 feet.	10	0	2,000	Passed near Lomando, Vernon, and LeRoy.
Wilson.....	do.	4:00 p. m.	SW			0	3,000	Passed near Buxton.
Rooks and Osborne.	May 20	7:00 p. m.		¼ mile.	15	0	12,000	Originated near Codell.
Harper and Kingman.	do.	9:00 p. m.	SW	100 to 800 feet.	25	0	2,000	Disappeared just east of Norwich.
Cherokee.....	Sept. 3					0		Occurred near Galena. Path short and damage small.
<b>1917</b>								
Allen.....	Mar. 22	8:00 p. m.				0	2,500	Occurred near Carlyle.
Elk.....	do.	About 5:30 p. m.	SW			0	3,000	Damage small. Passed near Howard.
Haskell and Gray.....	Apr. 18	About 2:30 p. m.	SW	100 yards to ½ mile.	40	0	10,000	Originated southwest of Santanta. No towns struck.
Rooks.....	May 20	6:00 p. m.	SW	600 feet to 2 miles.	40	0		As many as 3 funnel-shaped clouds seen. Passed near Plainville; damage comparatively small.
Decatur.....	May 25	1:00 p. m.	SW	300 to 500 feet.	10	0	1,000	No towns struck.
Lincoln.....	do.	3:00 p. m.	SW				2,500	2 funnel-shaped clouds followed separate paths, 1 passed south-east and 1 north of Sylvan Grove.
Elk, Woodson, Greenwood, and Allen.	do.	6:30 p. m.	SW	¼ mile.	58	1	50,000	Path was from near Howard to near Leanna. Storm moved 50 miles in 25 minutes.
Sedgwick, Harvey, Butler, and Marlon.	do.	2:00-2:50 p. m.	SW	Few rods to 1¼ miles.	65	12	600,000	Worst damage at Andale. Storm moved 40 miles in 45 to 50 minutes. At least 2 funnel-shaped clouds seen.
Montgomery.....	June 1	5:05 p. m.	SW	600 to 800 feet.	9	3	500,000	Chief damage in Coffeyville.
Franklin.....	do.	6:00 p. m.	SW	¼ mile.	10	0	15,000	Passed over Pomona.
Labette and Cherokee.	do.	do.	SW	100 to 200 feet.	10	0	7,000	Path extended from near Montana to near McCune.
Johnson.....	do.	7:30 p. m.	SW	80 rods.	25	4	10,000	Originated near Morse and then moved into Missouri.
Douglas.....	June 5	5:00 p. m.	SW	¼ mile.	1	1	50,000	Chief damage at Clinton.
Doniphan.....	do.	5:45 p. m.	WNW		4	0	15,000	Occurred near Troy.
Neosho.....	do.	6:00 p. m.	SW	300 yards.	15	1	30,000	Path extended from near Shaw to near Savonburg.
Franklin, Miami, and Johnson.	do.	6:15 p. m.	SW	1 mile.	40	0	10,000	Path extended from near Pomona to near Olathe.
Wabunsee, Shawnee, Jackson, and Jefferson.	do.	4:22-5:15 p. m.	SW	500 to 1,000 feet.	45	9	500,000	Path close to Topeka. Town of Elmont practically destroyed. Moved at the rate of 30 miles per hour. Several pendant clouds seen.
Pottawatomie and Wabunsee.	June 12	8:30-9:00 p. m.	NW	¼ to ½ mile.	15	0	75,000	Louisville struck.
<b>1918</b>								
Elk, Greenwood, Woodson, Allen, Bourbon, and Linn.	Feb. 27	8:00-10:00 p. m.	SW		100	0	200,000	Series of thunderstorms with 1 or more tornadoes in path. Storms ended in Missouri.
Ellis, Rooks, and Osbourne.	May 20	Between 8:30 p. m. and midnight.	SW		40	10	450,000	Tornado occurred in connection with violent thunderstorms. Chief damage at Ellis and Codell.
Trego.....	do.	6:00 p. m.		½ mile.	3	0	100,000	Occurred 10 miles southeast of Wakeeney.
Logan.....	do.	5:50 p. m.	SE	100 feet to ½ mile.	25	0	10,000	Occurred 4 miles southeast of Russell Springs.
Nemaha.....	May 26	5:45 p. m.	SW	600 feet.	22	0	50,000	Every building in Bern damaged. Storm extended to near Falls City, Nebr.
Sheridan.....	May 29							Damage small, occurred east of Hoxie.

County and year	Date	Hour	Storm moved from—	Width of path	Length of path (miles)	Loss of life	Property damage (estimated)	Remarks
<b>1919</b>								
Jackson and Atchison	Mar. 15	Noon	SW	Narrow	20	0	\$13,000	Chief damage in Muscotah.
Barton	Apr. 28	5:15 p. m.	SW	150 feet	1	1	6,000	Ellinwood struck.
Trego	May 18	5:00 p. m.	SW	100 feet	10	0	10,000	Passed 3 miles to southwest of Collyer. Pursued a zigzag path.
Barton	Oct. 8	4:04 p. m.	SW	400 feet	9	4	200,000	Hoisington struck; 25 persons injured.
Do	do	4:30 p. m.	SW		8	0		Damage small; moved from near Dundee to within 2 miles of Great Bend.
<b>1920</b>								
Greenwood	May 3	5:20 p. m.	NW	100 yards		0	200,000	Chief damage in eastern section of Eureka.
Douglas	July 1	7:40-8:00 p. m.					1,000	Damage occurred in North Lawrence. Several incipient tornado clouds seen.
Riley	July 31	3:00-4:00 a. m.	SW	200 feet	1 1/4	0	1,000	Occurred 5 miles north of Manhattan.
Jefferson	Sept. 23	7:30 p. m.		1/4 mile		0		Occurred near Winchester. Damage small.
<b>1921</b>								
Seward	Apr. 4	About 7:00 p. m.	SE			0		Damage slight; three tornado clouds seen.
Lincoln	May 9	4:10 p. m.	SW		10	0		Originated near Lincoln. Damage small.
Jackson	do	5:00 p. m.	NNW	100 feet to 1/4 mile	10	0	5,000	Formed near Mayetta; 5 persons injured.
Shawnee	May 26	6:00 p. m.	WSW	100 feet	2	0		Damage very small. Occurred in western suburbs of Topeka.
Greeley	Aug. 3	4:30 p. m.	NW	do	10	0		Damage small. Occurred in thinly settled country in northwest part of county.
Meade	Sept. 7					0		No damage done. Occurred near Plaine.
<b>1922</b>								
Wichita	Apr. 23		NE		5	0		Damage small. Occurred northwest of Leoti.
Ellis	May 10	9:00 p. m.				0		Damage small. Occurred in southwest part of county.
Wichita	Aug. 8				1 1/2	0	3,000	Occurred in northeast part of county.
Edwards	Sept. 8	2:36 p. m.	SW	1/2 mile	2	0	5,000	Town of Fellsburg struck.
Clark	Nov. 4	1:00 p. m.	SW		9	0		Considerable damage. Formed southeast of Mineola.
Mitchell	do					0		Damage small. Occurred at Beloit. Path short.
<b>1923</b>								
Brown and Doniphan	Mar. 3	5:00-5:35 p. m.	WSW		35	0	14,000	Originated near Baker, struck Elwood, and moved into Missouri through St. Joseph, where damage totaled \$50,000. Path not continuous.
Reno	Apr. 2	5:30 p. m.	W	300 feet	1	0	50,000	Town of Partridge struck.
Do	do				0	0		Damage small. Passed 3 miles south of Pretty Prairie.
Do	do				0	0		Damage small. Passed short distance north of Pretty Prairie.
Marshall	Apr. 23	5:00 p. m.	SW	1/4 to 1/2 mile	3	0		Storm formed over Oketo, moved into Nebraska, where 3 persons killed. Total damage was considerable in Kansas.
Stanton	Apr. 27	Shortly after noon	W	100 yards	10	1	1,500	Total damage in both States was \$32,000. Total length of path in both States was 14 miles.
Seward and Meade	do	4:15 p. m.	NW	Wide	15	0		3 tornado clouds seen; storm formed in Colorado and moved across northern part of Stanton County.
Morris	May 19	3:00 p. m.	SW	Narrow	7	0		Damage from wind light, but much damage from accompanying hail. Passed through edge of Plains.
Barber	May 22	Evening	SW		9	0		Damage small. Occurred between Delavan and Wilsey.
Kiowa	do	6:00 p. m.	SW	600 feet	9	0	100,000	Damage small. Occurred 10 miles northwest of Hazelton.
Sedgwick	do	8:55-9:30 p. m.	SW	1 mile in places	30	0	100,000	Greensburg struck; 8 persons injured.
Ford	May 31	Evening	SW			0		Travelled from Clonmell to northern edge of Wichita in 35 minutes.
Wichita	Aug. 4	5:10 p. m.	W			0	Larg	Damage comparatively small. Occurred 6 miles southwest of Dodge City.
Finney	do	6:00 p. m.	W		4	0	do	Leoti struck and many buildings in town destroyed. Damage not estimated. Several persons injured.
Rice	Sept. 17					0		Damage severe at Garden City, but amount not estimated.
Republie	Sept. 20	3:00 p. m.	SW	150 feet	6	0	\$1,500	Damage small. Occurred in southwest part of county.
Harvey	Sept. 26	Between 7:30 and 10:30 p. m.				0		Chief damage in Belleville.
Gray	Sept. 27	5:17 p. m.	SW			0		Occurred near Halstead in connection with violent thunder storm which caused \$210,000 damage. Very small per cent of this due to tornado itself.
<b>1924</b>								
Nemaha	Mar. 3	Evening	SW		15	0		Damage amounted to several hundred dollars. Occurred between Seneca and Bern.
Harper	Mar. 28	2:30 p. m.	SW	125 yards	10	0	8,000	Most of damage at Crisfield.
Elk	do	4:30 p. m.	SW	40 feet	7	0	800	Formed near Moline.
Franklin	do	5:30 p. m.	SW			0		Considerable damage, not estimated. Originated near Pomona. No towns struck.
Brown	do	5:00 p. m.	SW		1	0		Damage small. Occurred near Hiawatha.
Wilson and Woodson	do	Evening	S	40 feet	15	0		Ended near Yates Center. Several thousand dollars damage.
Brown	June 7	5:00 p. m.	W		8	0		Several small tornadoes occurred close together; 1 near Mercier, 1 near Willis, and 1 near Baker. Probably a reappearance of same cloud. Damage small and paths short.
Montgomery, Labette, and Cherokee	June 9	5:00-6:30 p. m.	W		50	1		Considerable damage. Occurred at Halowell and Coffeyville.
Crawford	June 20	1:00 p. m.				0		Damage small. Occurred at Arma. Path very short.
Doniphan	June 24	Between 5:00 and 6:00 p. m.	WSW	Narrow		0		2 tornadoes near Wathena. Damage light in Kansas but heavy near St. Joseph, Mo.
Ford	July 13	3:30 p. m.				0	500	Occurred 4 miles west of Dodge City. Damage small.
McPherson	do	7:00 p. m.	NW		10	0	100,000	Damage occurred chiefly at Conway, Windom, Inman, and Groveland. Tornado occurred in connection with violent thunderstorms.
Butler	do	8:15-8:45 p. m.	WNW	100 feet to 2 miles	23	1	2,000,000	Greatest destruction at Augusta and to oil rigs. Storm traveled 23 miles in 30 minutes.
Bourbon	do	9:30 p. m.	NW	200 feet	Several	0		Damage only a few thousand dollars. Occurred at Devon.
Marion	Sept. 10	Afternoon		1/2 mile	7	0	25,000	Path several miles long. Occurred at Marion.
<b>1925</b>								
Montgomery	Mar. 18	5 a. m.	SW	3 miles	30		50,000	Greatest damage at Dearing.
Chase and Morris	Apr. 23	Between 2:00 and 3:00 p. m.	SSW	300 to 400 feet	36	0	12,000	Path extended from southwestern part of Chase County to near Dunlap, but not continuous.
Atchison	do	4:00 p. m.	W	Narrow	15	0		Damage amounted to several thousand dollars, chiefly in Atchison.
McPherson	June 1	Between 3:00 and 4:00 p. m.	SW	50 to 100 yards	15	0	65,000	Formed 2 miles south of McPherson.
Cherokee and Crawford	do	5:00 p. m.	SW		12	0	100,000	Path ended a few miles south of Pittsburg; 4 persons injured.

County and year	Date	Hour	Storm moved from—	Width of path	Length of path (miles)	Loss of life	Property damage (estimated)	Remarks
1925—Continued								
Riley and Pottawatomie.	June 2	5:00 p. m.	SW	50 to 100 feet	10	0	\$35,000	Disappeared near Garrison. Several tornado clouds seen.
Scott.	June 15	Afternoon		100 feet	4	0		Damage small. Occurred near Manning.
Clay.	do	Between 7:30 and 8:00 p. m.	W	200 yards.	1	0	10,000	Originated 4 miles northeast of Clay Center.
Ottawa.	do	8:30 p. m.	WSW	1 mile	18	0	100,000	Chief damage at Delphos.
Brown.	June 17	4:00 p. m.				0		Very little damage.
Sheridan.	Aug. 14	Evening				0		Damage small, mostly at Seguin.
Wyandotte.	Sept. 10	4:00 p. m.	SW		1	0	5,000	Chief damage near Bethel.
1926								
Butler.	May 13	2:30 p. m.	WNW	300 feet	1	0	500	Occurred near Elbing.
Barber.	May 15	6:00 p. m.	SW	$\frac{1}{4}$ mile.	8	0	8,000	Occurred 6 miles west of Hardtner.
Jefferson.	June 15	Afternoon				0		No damage. Cloud failed to touch ground. Was sighted near Grantville.
Shawnee and Jefferson.	June 16	5:00 p. m.	WSW	Narrow	5	0		Damage small. Formed at eastern edge of Topeka; 2 tornado clouds seen.
Greenwood.	do	5:45 p. m.				0	100,000	Occurred 12 miles north of Eureka in Thrall oil field. Damage includes that of 2 other Greenwood County tornadoes of same day, chiefly to oil rigs.
Do.	do	Late afternoon				0		Occurred at Sallyards. Path short.
Do.	do	do				0		Occurred near Climax. Path short.
Mitchell.	June 20	Between 5:00 and 6:00 p. m.	SW		25	0		Damage small. Path extended from near Hunter to near Beloit but not continuous.
Ellsworth and Saline.	do	7:30 p. m.	W	100 feet to $\frac{1}{4}$ mile	30	0	40,000	Passed 2 miles north of Ellsworth. Several pendant clouds reported.
Nemaha.	do	8:00 p. m.				0	3,000	Occurred at Seneca.
Doniphan.	do	8:30 p. m.		200 yards.		0	1,200	Occurred at Severance.
Dickinson and Morris.	July 8	9:30 p. m.	NW	160 yards.	25	0	6,000	Path extended from near Abilene to near Parkerville.
Rawlins.	Aug. 9	Between 8:00 and 10:00 p. m.	W		20	0	2,500	Occurred in northern part of county in connection with thunderstorms. Path not well defined.
Marshall and Nemaha.	Sept. 2	6:00 p. m.	SW		10	0		Considerable damage, not estimated. Occurred in northern parts of counties.
Finney and Gray.	Sept. 14	6:30 p. m.	SW			0		No damage reported. Cloud seen for about 5 minutes, only, and was 25 miles northwest of Dodge City.
Ford.	do	7:15 p. m.	SW			0		Funnel cloud failed to reach ground but passed directly over Dodge City. Some damage from high winds in Dodge City.
1927								
Cloud.	Mar. 11	About 5:30 p. m.	SW	50 feet	Short.	0	150	Occurred near Aurora.
Jackson.	do	5:30 p. m.	SSW	100 feet	15	0	7,000	Extended from southwest of Holton to near Netawaka. Path not continuous.
Doniphan.	do	8:00 p. m.	SW	150 yards	$3\frac{1}{2}$	0	1,500	Occurred southwest of Watbena.
Gray.	Apr. 7	7:00 p. m.				0		Damage small.
Harvey.	Apr. 18	1:30 p. m.	W	200 yards	$\frac{1}{2}$	0	600	Occurred 7 miles southwest of Newton.
Cowley.	do	8:00 p. m.	SW		100 feet.	0	100	Occurred in edges of Arkansas City. Cloud dipped to earth in but one place.
Jewell.	Apr. 28	3:30 p. m.	NNE	100 yards.		0		Originated in Nebraska. Little damage in Kansas.
Comanche.	May 7	5:00 p. m.				0		No damage; 2 tornado clouds appeared 10 miles west of Aetna. Paths not well defined.
Comanche, Barber, Kingman, Reno, and McPherson.	do	5:20-11:45 p. m.	SSW	$\frac{1}{2}$ to 2 miles	118	10	1,300,000	Storm struck East Hutchinson where most of damage was done; 300 persons injured. Storm pursued a zigzag path at rate of about 18 miles per hour.
Ford.	May 17	Late afternoon				0		Occurred 3 miles east of Ensign. Damage small.
Shawnee.	June 3	4:40 p. m.	WSW	100 feet	$5\frac{1}{2}$	0	400	Occurred in suburbs of Topeka.
Do.	do	6:30 p. m.	SW		$\frac{1}{2}$	0	1,000	Occurred near Auburn; 2 tornado clouds seen pursuing parallel paths 100 to 150 feet apart.
Lane.	June 4	Afternoon	NW	$\frac{1}{2}$ mile		0	50,000	Occurred in connection with thunderstorm near Shields. Path not well defined.
Jackson and Atchison.	June 11	7:45 p. m.	SW	do	30	0	1,000	Damage mostly in Muscotah.
Wabaunsee and Osage.	July 16	4:00-4:30 p. m.	WNW	900 feet	12	2	100,000	Extended from near Harveyville to Burlingame; 12 persons injured.
Morris, Lyon, and Coffey.	do	4:15-4:45 p. m.	WNW	A few feet to 50 yards.	28	3	100,000	Extended from near Dunlap to near Lebo. Traveled 28 miles in 30 minutes.
Johnson and Wyandotte.	do	4:45 p. m.	WSW	600 feet	4	4	160,000	Extended from Rosedale to South Park, a suburb of Kansas City; 40 persons injured.
Pratt and Barber.	Aug. 13	7:00 p. m.	WNW	300 feet	10	0	10,000	Extended from near Coats to near Sawyer.
Cherokee.	Oct. 2	12:15 a. m.	SW	200 yards	5	0	10,000	Occurred east of Columbus.
1928								
Smith.	May 2	Between 8:00 and 8:30 p. m.	NW		5	0	15,000	Occurred in northern part of county in connection with violent thunderstorms. Path not well defined.
Doniphan.	May 15	4:50 p. m.	SW	50 to 100 feet	7	0	2,000	Damage occurred at White Cloud. Storm moved into Missouri.
Rooks.	June 5	6:30 p. m.	NW	300 yards	4	0	600	Occurred near Zurich.
Do.	do	7:30 p. m.	NW	do	1	0	800	Originated 2 $\frac{1}{2}$ miles east of Plainville.
Logan.	June 7	Afternoon	SW			0	5,000	Originated near Elkader, 25 miles south of Oakley.
Bourbon and Crawford.	June 8	3:00 a. m.	N	Narrow	15	0	5,000	Formed south of Fort Scott. Damage chiefly in Godfrey, Garland, and Croweburg.
Finney.	do	Late afternoon				0	1,000	Occurred 8 miles north of Garden City.
Rawlins.	June 11	7:30 p. m.	SW	600 feet to $\frac{1}{2}$ mile	18	0	5,000	Originated southwest of Ludell. Moved to McCook Nebr., where much damage was done.
Logan.	do	do	SW	600 feet	22	0	12,000	Formed 4 miles east of Monument.
Bourbon.	do	Midnight.	SW	Narrow		0	6,000	Occurred 5 miles northwest of Garland.
Rush.	June 16	5:30 p. m.	NW	50 feet	15	2	5,000	Formed near Nekoma.
Saline.	do	6:00 p. m.	NW	100 feet	5	0	3,000	Occurred 5 miles southwest of Solomon; 4 distinct funnels seen.
Ellsworth and Saline.	do	do	WNW	100 feet to $\frac{1}{4}$ mile	8	0	51,000	Passed close to Brookville.
Rice.	do	6:30 p. m.	NW	100 feet	3	0	1,500	Formed $1\frac{1}{2}$ miles northeast of Alden; 4 funnel-shaped clouds sighted.
Saline.	do	do	W	50 feet		0	1,000	Struck west edge of Falun. Path very short.
Stafford.	do	7:00 p. m.	W	$\frac{1}{2}$ mile	12	0	10,000	Moved from near St. John to near Stafford. Pendant cloud larger at bottom than top.
Kiowa and Pratt.	do	6:00-8:00 p. m.	WNW	300 feet to $\frac{1}{2}$ mile	40	0	100,000	Moved from Greensburg to Sawyer; 3 distinct funnel-shaped clouds seen.
Lyon.	June 17	3:00 p. m.	NW	200 yards	$1\frac{1}{4}$	0	18,000	Formed near Americus.
Wilson and Neosho.	do	6:00 p. m.	SW	300 yards	12	0	20,000	Moved from near Altoona to near Chanute.
Stanton.	June 19	8:30 p. m.	NW		7	0	5,000	Most of damage in Johnson.
Anderson.	June 22					9		Damage small. Cloud as seen from Garnett scarcely reached the ground.
Reno.	June 23	7:00 p. m.	NW	25 feet to $\frac{1}{4}$ mile	15	0		Originated 4 miles northwest of Arlington. Damage small.
Gove.	do	do				0		Occurred in southwestern part of county. Damage small.
Lane.	do	Near noon	W	40 feet	Several.	0		Damage small. Occurred between Healy and Dighton.
Finney, Scott, and Lane.	Oct. 11	Afternoon	SW	30 feet	20	0	20,000	Path over rural sections; crossed southern part of Scott County.